### PATENT COOPERATION TREATY

# PCT/JP2004/015115

### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	(PCT Article 3	o and Rule 70)					
Applicant's or agent's file reference TU04-1003WO1	FOR FURTHER ACT	TION	See Form PCT/IPEA/416				
International application No.	International filing date		Priority date (day/month/year) 24 October 2003 (24.10.2003)				
PCT/JP2004/015115  International Patent Classification (IPC) or n	14 October 2004		24 October 2003 (24.10.2003)				
H01L 21/60, C22C 19/03, C23C	: 14/34						
Applicant	NIKKO MATERIA	ALS CO., LTD.					
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>							
2. This REPORT consists of a total of	3 sheets, i	including this cover :	sheet.				
<ol><li>This report is also accompanied by</li></ol>	ANNEXES, comprising:		*				
a. (sent to the applicant an	d to the International Bur	eau) a total of1_	sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in Item 4 of Box No. 1 and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the							
Administrative Instructions).  4. This report contains indications relating to the following items:							
Box No. I Basis of the	report						
Box No. II Priority	•						
Box No. III Non-establis	shment of opinion with rep	gard to novelty, inve	ntive step and industrial applicability				
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VII Certain defe	Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
02 February 2005 (02.	02.2005)	01 March 2005 (01.03.2005)					
Name and mailing address of the IPEA/II	)	Authorized officer					
Facsimile No.		Telephone No.					

Translation

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/015115

ox No.	I	Basis of the report						
		${f rd}$ to the language, this report is based on the international application in the laindicated under this item.	nguage in which it was filed, unless					
		is report is based on translations from the original language into the followitich is language of a translation furnished for the purpose of:	ng language,					
		international search (under Rules 12.3 and 23.1(b))						
		publication of the international application (under Rule 12.4)						
		international preliminary examination (under Rules 55.2 and/or 55.3)						
furni.	shed t ire no The	ard to the elements of the international application, this report is based or to the receiving Office in response to an invitation under Article 14 are refer of annexed to this report): international application as originally filed/furnished						
$\bowtie$		description:						
	page		, as originally filed/furnished					
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k								
$\boxtimes$		claims:						
	page		, as originally filed/furnished					
	page		ogether with any statement) under Article 19					
	page		02 February 2005 (02.02.2005)					
	page	es* received by this Authority on						
$\boxtimes$	the c	drawings:						
	page		, as originally filed/furnished					
	page							
	page	received by this Authority on						
	a sec	equence listing and/or any related table(s) - see Supplemental Box Relating to S	Sequence Listing.					
s. 🔲	The	amendments have resulted in the cancellation of:						
	П	the description, pages						
	П	the claims, Nos.	•					
		the drawings, sheets/figs						
		the sequence listing (specify):						
	F	any table(s) related to sequence listing (specify):						
		any annoth remove to requeste noting (spreagy).						
ı. 🗀	mad	s report has been established as if (some of) the amendments annexed to this de, since they have been considered to go beyond the disclosure as filed, it is 70.2(c).  It he description, pages the claims, Nos.  It he drawings, sheets/figs  the sequence listing (specify):  any table(s) related to sequence listing (specify):	s report and listed below had not been as indicated in the Supplemental Box					
* If ite	m 4 a <sub>i</sub>	applies, some or all of those sheets may be marked "superseded."						

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

				101	701 200 17015115	
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement			}			
Novelty (N)	Claims	,	1-8	YES		
		Claims			NO	
Inventive step (IS)	Claims		1-8	YES		
		Claims			NO	
Industrial applic	ability (IA)	Claims		1-8	YES	
		Claims			NO	

2. Citations and explanations (Rule 70.7)

Document 1: JP, 11-117061, A (Hitachi Metals, Ltd.), 27 April, 1999

Document 2: JP, 9-074097, A (Sony Corp.), 18 March, 1997

None of the documents cited in the ISR describes a nickel alloy sputtering target that satisfies the predetermined composition requirements as can be seen in the inventions relating to claims 1-3; nor is this obvious to a person skilled in the art.

None of the documents cited in the ISR describes providing a nickel alloy thin film that satisfies the predetermined composition requirements as can be seen in the inventions relating to claims 4-8 between a foundation layer or pad and solder bump; nor is this obvious to a person skilled in the art.